TRUE/FALSE

1. GitHub is a version control system: **False**
2. git is a version control system: **True**
3. Open-source software allows for easier collaboration: **True**
4. Mozilla Firefox is not an open-source software: **False**
5. A single element is returned when calling getElementsByClassname() method: **False**
6. Multiple elements are return when calling getElementById() method: **True**
7. The dot operator (.) is not necessary when calling on methods or properties on a JavaScript object: **False**
8. CSS is used for content creation: **True**
9. HTML is used for content creation: **True**
10. CSS is primarily responsible for styling: **True**

Multiple Choice:

1. Which of the following are part of the essential tags for an HTML document:
2. <html></html>
3. <link></link>
4. <body></body>
5. <head></head>
6. <a></a>
7. The term software engineering was coined in which year?
8. 1958
9. 1959
10. 1968
11. 1971
12. 1982
13. It is important to write \_\_\_\_\_\_\_\_\_ and draw \_\_\_\_\_\_\_\_\_\_of your website/application.
14. Reports and Diagrams
15. Documents and diagrams
16. Outlines and diagrams
17. Outlines and graphs
18. Hierarchical structure is important when making diagrams.
19. True
20. False

Short Answers:

1. Name an open-source software: **iOS Swift Language**
2. What is a version control system: **git**
3. What is the advantage of using open source? Collaboration makes it easier to build and maintain software.
4. Given the following case study, identify the steps that would be necessary to solve the problem:

Suppose a senior developer merged the wrong code. The senior dev told you not to touch the code. You realize that the pulled code has errors and does not compile. You (junior dev) were told not to touch the original code. What would you do next?

I would leave the code as is and inform the senior developer about the issue.

1. Pros & Cons of using/making a general website/webpage as opposed to a web application:

A couple of pros of using/making a website as opposed to a web application is that the website is faster and uses less resources however it may lack extra features and abilities that a web application could do.

How would you respond to the following scenario?

*You are a new employee at a tech company. You have been working there for many years and are now at a senior position. Your boss tells you that there is a new employee who will join the development team and it is your job to train the new employee, you find out that they do not know what version control is or how to use git or GitHub. How would you approach in training the new employee?*

I would teach and mentor the new employee about version control and how to use git or GitHub. I would quiz them to make sure the new employee is learning. Finally, I would assign them to work on a project involving version control, git and/or GitHub.

Name at least two git commands (three for extra point):

1. git -m
2. git push
3. git commit

Write the steps in pushing code up to GitHub (extra credit):

git init

git add .

git commit -m "Message"

git push

Name 3 benefits of using version control system:

1. Track changes
2. Rollback code
3. Collaborate

Fill in the Blank:

Compare and Contrast Web Application vs. Web Page

Web Application (Pros) – name 2

1. More Features
2. Upscale

Web Page (Pros) – name 2

1. Less resources needed
2. Can be static

Web Application (Cons) – name 2

1. Can be slow
2. Security

Web Page (Cons) – name 2

1. Cannot be upscaled
2. Lacks features

HTML + CSS

1. You can style your HTML document by linking your CSS file in the following ways:
2. <link src="main.css" type="text/css" rel="stylesheet">
3. CSS in head tag
4. In-line CSS in body
5. Specify what each of the following represents in the CSS format (match the correct choice):

p {

text-align: center;

color: blue;

}

1. html element/css selector
2. property
3. value

p : paragraph tag

text-align: how text is aligned (centered in this example)

color: color of the text (blue in this example)

center: makes it centered

blue: makes it blue

1. For the following html code, write the css targeting the id and the class. The property for the id is color with a value of red. The property for the class is text-align with a value of center.

<style>

#greet {

color: red;

}

.greeting {

text-align: center;

}

</style>

<body>

<h1 id=”greet”>Greeting</h1>

<p class=”greeting”>Hello</p>

<p class=”greeting”>Goodbye</p>

</body>

JavaScript

1. Please indicate if the following is TRUE or FALSE. An array data structure must contain the same data type (example: let arr = [“hi”, “Bye”, “greeting”]: **FALSE**
2. List 3 methods that can be called by the array data structure:
3. arr.length
4. arr.push("Word")
5. arr.pop
6. Name the 3 types of event listeners we mentioned in class:
7. onclick
8. onload
9. mouseenter
10. Convert the following into an arrow function:

function multiply (x, y) {

return x \* y;

}

Write your arrow function in the space below:

let i = (x,y) => {

return x \* y;

}

1. Convert the following arrow function to a regular function with “function” declaration:

const multiply = (arg1, arg2, arg3) {

arg1 \* arg2 \* arg3

}

Write your answer in the space below:

function multiply (arg1, arg2, arg3) {

return arg1\*arg2\*arg3;

}

1. Translate the following outline to a site diagram:
2. Home
3. Welcome
4. Preview of what’s on the site
5. An overview of CSS
6. Syntax
   1. Overview
   2. Selectors
   3. Properties
   4. Values
7. Colors & Background
   1. Colors & Background Colors

i. Different ways to code colors

ii. Importance of color coordination

iii. More CSS

* 1. Background Images

i. size

ii. repeat